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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,879	03/30/2004	Bin Wei	129545-1	2878
GENERAL ELECTRIC COMPANY  6147 7590 06/27/2007  EXAMINER				INER
GLOBAL RESEARCH			POPOVICS, ROBERT J	
PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309		9	ART UNIT	PAPER NUMBER
111011111111111111111111111111111111111	.,		1724	
			MAIL DATE	DELIVERY MODE
			06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

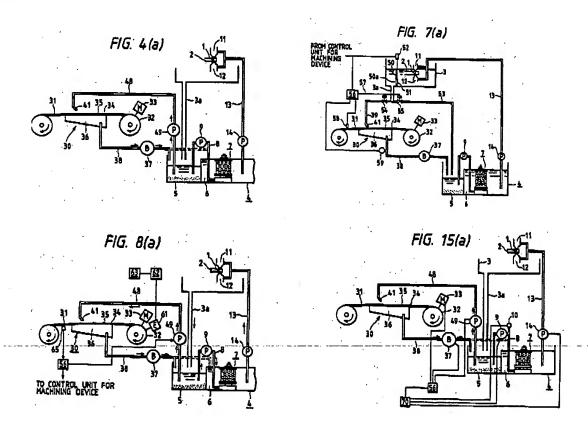
	Application No.	Applicant(s)				
	10/708,879	WEI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert J. Popovics	1724				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER; FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause, the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	·					
1) Responsive to communication(s) filed on June	<u>14, 2007</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	·— · · · · · · · · · · · · · · · · · ·					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-13 and 15-24</u> is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-13 and 15-24</u> is/are rejected.	6)⊠ Claim(s) <u>1,3-13 and 15-24</u> is/are rejected.					
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119		****************				
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priori</li> </ul>	s have been received. s have been received in Applicati	on No				
application from the International Bureau	•	in this National Stage				
* See the attached detailed Office action for a list of	, , , , , , , , , , , , , , , , , , , ,	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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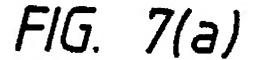
### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

Claims 1,3-13 and 15-24 are rejected under 35 U.S.C. 103 as being obvious over the combined teachings of Suzuki (US 5,221,467) and Corcelle (US 5,071,567). See Figures 4(a), 7(a), 8(a) and 15(a) each of which illustrates two stage filtration in an EDM:



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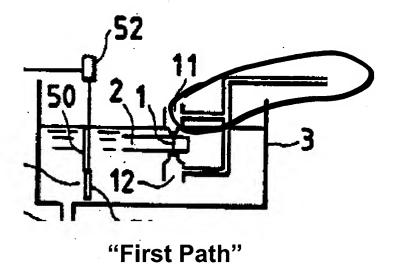
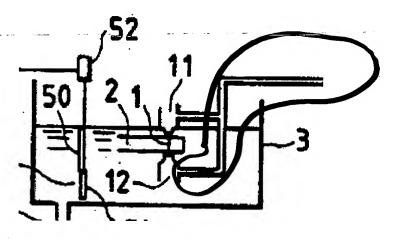


FIG. 7(a)



"Second Path"

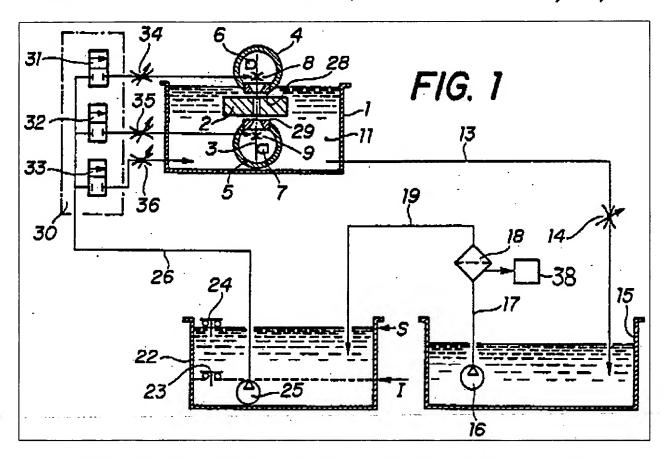
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The claims essentially differ from **Suzuki** by specifying a liquid adding inlet "directly connected to said work tank." Corcelle discloses a return line directly connected to said work tank as depicted in Fig. 1 of **Corcelle**:

U.S. Patent

Dec. 10, 1991

5,071,567



It would have been obvious to one skilled in the art to directly connect the inlet/line of **Suzuki** in view of the clear teaching of **Corcelle**. It is noted that the use of "guides" as recited in claims **5,11,12,17,23** and **24,** is well known in the art. It is submitted that the use of a guide in the system of Suzuki would be inherent.

Alternatively, it is submitted that the use of a guide in the system of Suzuki would have been obvious by virtue of the well known status of guides.

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#### Claim Rejections - 35 USC § 103

Claims 1,3-13 and 15-24 are alternatively rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Suzuki (US 5,221,467) and Hosaka (US 6,533,927) and Corcelle (US 5,071,567). Hosaka discloses guide 13. The use of a guide in the system of Suzuki would have been obvious in view of the teachings of Hosaka. Corcelle discloses a return line directly connected to said work tank as depicted in Fig. 1 of Corcelle. It would have been obvious to one skilled in the art to directly connect the inlet/line of Suzuki in view of the clear teaching of Corcelle

The additional subject matter of claims 4,6,9,16 and 18 merely recite features which are conventional, or would have been readily apparent to those skilled in the art. It is noted that the use of sloped tank bottoms to direct accumulated debris is notoriously well known in the art. It is known that the use of control systems employing pressure sensors at various points in a system is notoriously well known in the art. The use of additional pumps and flowpath configurations would have been readily apparent to those skilled in the art for various reasons, including, but not limited to, reducing the size of the pump and/or piping, avoiding points of stagnation in either tanks, using materials on hand (as opposed to buying), redundancy, to permit cycling and/or maintenance of the pumps/lines, etc. Accordingly, claims 4,6,9,16,18 and 21 are not seen to patentably distinguish over the combined teachings of Suzuki (US 5,221,467) and Hosaka (US 6,533,927) and Corcelle (US 5,071,567).

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#### Response to Arguments

Applicant's arguments filed **June 14, 2007** have been fully considered but they are not persuasive.

Applicants argue:

However,

there is no teaching or suggestion in Suzuki to provide a return path through a liquid adding inlet <u>directly connected</u> to the work tank, as recited in amended Claims 1 and 13. Thus, the Suzuki reference does not anticipate or render obvious the claimed invention, and the rejection is misplaced.

It is submitted that this argument is rendered moot by virtue of the art rejections set forth above.

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on **June 14, 2007** has been entered.

Any inquiry concerning this communication should be directed to Robert J.

Popovics at telephone number (571) 272-1164.

Robert James Popovics Primary Examiner Art Unit 1724

CH